Guide Using Application Data
to Evaluate a Notice of Intent for a Metam or Dazomet Soil Fumigation
Based on DPR's Recommended Permit Conditions

● *Permit applications must include a map or description of all occupied structures and bystander areas within ½ mile and all schools within 1 mile of the fumigation site.*

		1.	Check the **application method** listed on the NOI	**Start Time** listed on NOI
			Drip; Drip with Tarp	
			Spray Blade with Soil Cap	
			Power Mulcher or Rotary Tiller	
			Drench	
			Flood	
			Rod Bar	
			Shank with Post-Application Water Treatment (PAWT); Shank with Soil Cap; Shank with Tarp	
			Sprinkler	
			Dazomet	
		2.	What are the pounds of metam per gallon on the **product** label ? Vapam HL Label, 4.26 lbs ai/gal Sectagon-42 Label, 4.22 lbs ai/gal K-Pam HL Label, 5.8 lbs ai/gal Sectagon-K54 Label, 5.8 lbs ai/gal Metam CLR 42% Label, 4.25 lbs ai/gal Basamid G, 2 Labels (1 - turfgrass and ornamental plants; and 2 - *California Only*, strawberries and tomatoes) See respective Tables	_____ lbs ai/gal.
		3.	What is the **application rate** (gallons/acre) ?	_____ gal/A.
		4.	What is the **metam rate** ? (lbs ai/gal) x (gal/A) = lbs ai/A	_____ lbs ai/A.
Yes	No	5.	Is the location in a San Joaquin Valley, Southeast Desert, or Ventura volatile organic compound (VOC) **ozone non-attainment area** ?	
Yes	No		If Yes, is the application during May 1 through October 31 ?	
			If Yes, is the application prohibited ? <u>Flood</u> is Not Allowed. <u>Sprinkler 1 a.m. Start</u> is Not Allowed. <u>Drench at VOC Rate 1</u> is Not Allowed (VOC Rate 1: metam sodium = 246 lbs ai/A; metam potassium = 270 lbs ai/A.)	If Yes, reject the NOI.
Yes	No		If the application is not prohibited, is the metam rate below the maximum allowed ? Sprinkler 4 a.m. method allowed at reduced rates : metam sodium = 260 lbs ai/A, metam potassium = 290 lbs ai/A. Drench at VOC Rate 2 allowed statewide : metam sodium = 90 lbs ai/A, metam potassium = 98 lbs ai/A.	_____ lbs ai as a result of VOC reduced rate.
		6.	How many **acres (A)** will be treated ?	_____ A treated.
Yes	No	7.	Will more than one field will be treated ?	
Yes	No		If Yes, are the fields owned by an individual operator of the property <u>and</u> <¼ mile apart <u>and</u> treated consecutively over a 2-day period (that is, within 24-hrs) ? If Yes, the fields are considered **multiple blocks**.	Use total acreage.
			If > 24-hrs have elapsed between the start of Field 1 and the start of Field 2, the fields are not multiple blocks.	Use individual acreage.
Buffer Zone (BZ) Distances and Duration by Method-specific Look-Up Tables (Items 8 through 11)				
		8.	**BZ Distance :** Is the application a Dazomet, Flood, Drench, Rod Bar, Shank or Sprinkler ? If Yes, these methods have Look-Up Tables based on the number of PAWT or Start Times. Choose the applicable Table : 1 Table each: Dazomet, Flood 3 Tables each: Drench, Rod Bar, Shank 4 Tables: Sprinkler	Find the Table intersect for metam rate and acres treated. Round up as needed.
			Is the application for <u>*metam potassium*</u> by Flood, Drench, Rod Bar, Shank, or Sprinkler method ? If Yes, see the Table footnote.	Multiply Table intersect by 0.9 for Distance when *metam potassium* applied.

Yes	No	9.	**BZ Duration** : Does the NOI list the number of **PAWTs** and Start Time ?	
			If Yes, check that the duration is correct based on the number of PAWTs and Start Time **OR** based on the CAC discretion given in Item 10 or 11.	**24-hrs for 2 - 3 PAWTs; 48-hrs for 1 PAWT**.
			If No, is the application a Shank with **Soil Cap** ? This method does not require PAWT. Use Shank Table 2 to determine BZ Distance. (See page 11 of the Recommended Permit Conditions)	BZ Duration : 24-hrs.
			If No, is the application a Shank with **Tarp** ? This method does not require PAWT. Use Shank Table 2 to determine BZ Distance.	BZ Duration : until Tarp removed (48-hr minimum)
			If No, is the application a Flood ? This method does not require PAWT.	BZ Duration : 24-hrs
Yes	No	10.	For Drench, Rod Bar, Shank, and Sprinkler methods, has the CAC eliminated the 3rd PAWT in a *sensitive area* (≤ ¼ mile from an occupied structure, bystander area, or similar sites determined by the CAC) based on an evaluation of the soil type and moisture content, knowledge of local conditions, and prior effective control measures ?	If Yes, use the Method-specific Table 2 for Distance; BZ Duration : 24-hrs.
Yes	No	11.	For Drench, Rod Bar, Shank, and Sprinkler methods, has the CAC eliminated the 2nd PAWT in a *standard area* (> ¼ mile from an occupied structure, bystander area, or similar sites determined by the CAC) based on an evaluation of soil type and moisture content, knowledge of local conditions, and prior effective control measures; and >1 mile from a school in session ? *Proceed to Item 13.*	If Yes, use the Method-specific Table 3 for Distance; BZ Duration : 48-hrs.
BZ Distances and Duration For Methods Without a Look-Up Table (Item 12 only)				
Yes	No	12.	Is the application a Drip, Spray Blade with Soil Cap, Power Mulcher or Rotary Tiller ? These methods do not require PAWT. These methods have single values for Distance and Duration.	**BZ Distance** : Metam sodium = 100 ft; Metam potassium = 90 ft; **BZ Duration** = 24 hours.
Yes	No	13.	Does the BZ extend onto the **adjoining agricultural property** ?	
Yes	No		If Yes, does the NOI include documentation of how the operator of the adjoining property will ensure workers will not enter the BZ ?	If No, reject the NOI until this condition is added.
Yes	No	14.	Does the BZ extend into the property of an **occupied structure** ?	
Yes	No		If Yes, does the NOI include documentation from the property owner, operator or legal resident that the BZ may encroach up to a clearly specified boundary ?	If No, reject the NOI until this condition is added.
Yes	No	15.	Is the application Dazomet, Drench, Flood, Rod Bar, Shank or Sprinkler and **within ½ mile of a school** property when school is in session or scheduled to be while the BZ is in effect ?	If Yes, **Reject the NOI.** Fumigation prohibited.
Yes	No		Is the application Drip, Spray Blade with Soil Cap, or Power Mulcher or Rotary Tiller and ≤ 5 acres and **within ¼ mile (1,320 ft) of a school** property when school is in session or scheduled to be while the BZ is in effect.	If Yes, **Reject the NOI.** Fumigation prohibited.
Yes	No	16.	**Post-Application Field Monitoring** : Is Hourly for 12-hrs indicated on the NOI if the application is in a *sensitive area*; this includes applications within ½ mile of a school in session during the application or the BZ duration (this refers only to Drip, Spray Blade with Soil Cap, Power Mulcher or Rotary Tiller > 5 acres) ?	If No, reject the NOI until this condition is added.
Yes	No		For Dazomet, Drench, Flood, Rod Bar, Shank and Sprinkler methods, is Hourly for 12-hrs indicated if the application is ½ - 1 mile from the perimeter of a school property when school is in session during the application or the BZ duration ?	If No, reject the NOI until this condition is added.
Yes	No		Is Every 2 hr for 12-hrs indicated on the NOI if the application is in a *standard area* ?	If No, reject the NOI until this condition is added.
Accept the NOI when the above Application Data are provided.				

NOTE: If the NOI lists more acreage than what is indicated in DPR's Recommended Permit Conditions, November 5, 2010, the application is Not Allowed because the BZ would be greater than ½ mile, which is the limit of DPR's BZs.